MODEL271

1-Port RS-232/485/422 to Fiber Converter

Serial to Fiber Converter

Features

- Auto sense serial signal rate, zero delay automatic transmit
- 500Kbps the highest baudrate
- Supply three interface (RS232/485/422)
- Multi-mode 2KM, signal-mode 20, 40, 60, 80, 100, 120KM
- Compact Size
- Decreases Signal interference
- DIN Rail or Wall-mounting

Introduction

The Model271 Series converter is equipped with a multiple interface circuit that can handle RS-232, or RS-422/485 serial interfaces and multi-mode or single- mode fiber. Model271 converters are used to extend serial transmission distance up to 2km (multi-mode fiber) or up to 20-120 km (single- mode fiber). Note that the RS-232 and RS-422/485 interfaces cannot be used on the same Model271 at the same time to convert to fiber. Auto Baud Rate Detection.
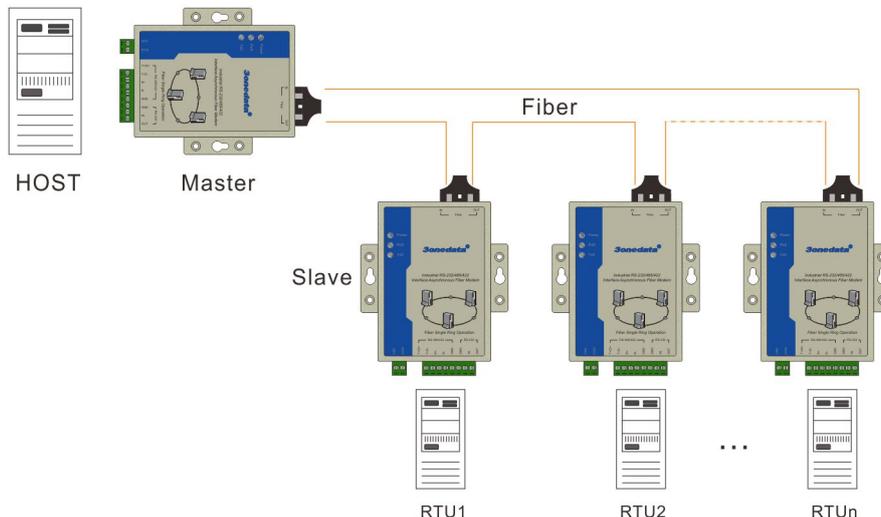
Automatic Baudrate Detection

The Model271 Series incorporates a method for automatically detecting the serial signal baud rate by hardware. This is an extremely convenient feature for the user. Even if a device's baud rate is changed, the signal will still be transmitted through the RS-232 or RS-422/485 to fiber converter without any problem.

Ring Operation

Model271 can be used to connect serial device to a fiber Ring. To form the ring, connect the Tx port of one Model277 to the Rx port of a neighboring converter. Please make sure that there. Have Model271 is master and others are slaves.

HOST   Master

Fiber

Slave

RTU1   RTU2   RTUn

Specification

RS-232/485/422 side

Standard: EIA RS-232, RS-485, RS-422

Connector: Terminal Block

RS-232 Signals: Tx, Rx, GNG

RS-422 Signals: T+, T-, R+, R-

RS-485 Signals: T+, T-

Baudate: 0-500kbps

ESD Protection: 15KV for all signals

Optic fiber side

Fiber Connector: SC, FC or ST optional

Cable Requiremnets

Single-mode: 8.3/125, 8.7/125, 9/125 or 10/125μm

Multi-mode: 50/125, 62.5/125, or 100/140μm

Transmission

Multi-mode: 2KM

Single-mode: 20, 40, 60, 80, 100, 120KM optional

Wavelength

Single-mode: 1310nm

Multi-mode: 850nm

Tx Output

Single-mode: >-5dBm

Multi-mode: >-5 dBm

Rx Sensitivity

Single-mode: -25dBm

Multi-mode: -25dBm

Point-to-Point Transmission: Half-duplex or full-duplex

Ring Transmission: Half-duplex

Physical Characteristics

Case: Iron

Dimensions: 100*69*22mm

Environment

Operating Temperature: -25℃ to 70℃

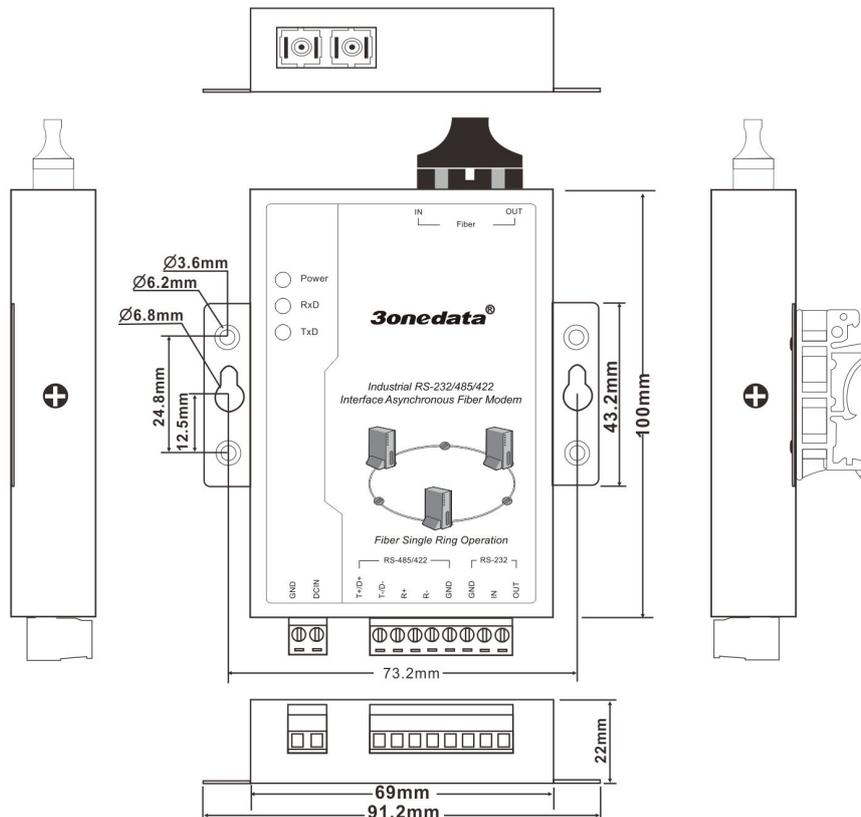Storage Temperature: -40℃ to 85℃

Relative Humidity: 5 to 95%

Power Requirements

Input Voltage: 9-36VDC

Consumption: 120mA

Warranty: 3 Years

Dimension (Unit: mm)

Ordering Information

MODEL271 (M): 1-Port RS-232/485/422 to optical fiber, Ring, multi-mode SC/ST/FC, 9~36VDC, wall mount;

MODEL271 (S): 1-Port RS-232/485/422 to optical fiber, Ring, single-mode SC/ST/FC, 9~36VDC, wall mount;

MODEL271 (SS): 1-Port RS-232/485/422 to optical fiber, Ring, single-mode, single fiber SC/ST/FC, 9~36VDC, wall mount;

Packing List

1. Serial to fiber converter (plus terminal block) × 1

2. User manual × 1

3. Certificate of quality × 1

4. Warranty card × 1

Optional accessories:

DIN-Rail Mounting Kit (35mm) × 2